

ABSTRACT OF THE DISCLOSURE

Communication system which executes data communication of parallel combinatory spread spectrum scheme between transmitter and receiver, transmitter comprising acquiring unit which acquires radio channel quality information by measuring radio channel quality when transmitter receives signal, information generation unit which generates first physical layer control information for control of physical layer based on radio channel quality information at first control timing which fails to be in cooperation with dedicated channel for control of physical layer, and first transmission unit which transmits, to receiver, first physical layer control information by selected spreading-code data of parallel combinatory spread spectrum scheme, and receiver comprising first receiving unit which receives first physical layer control information by selected spreading-code data of parallel combinatory spread spectrum scheme, and physical layer control unit controls physical layer between receiver and transmitter based on first physical layer control information.